RESOURCE AND PATIENT MANAGEMENT SYSTEM

Dental/EDR Interface

(BADE)

Installation Guide and Release Notes

Version 1.0 Patch 2
April 2013

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Albuquerque, New Mexico

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Preface

This manual provides information regarding the Patch 2 release of the Dental/EDR BADE Interface with RPMS. This patch includes a RPMS KIDs build. The patch includes the following updates:

- A fix for RPMS inactivated patients

- Alerts for RPMS HL global LOCK issues

- New Menu option- DEFAULT USER

> **Note**: This patch installation must only be applied to an environment already running the original BADE0100 package with Bade Patch 1 installed.

1.0   Introduction

For over a decade, hospitals and health centers of the Indian Health Service (IHS) and numerous tribal health programs have utilized an information system called the Resource and Patient Management System (RPMS). The RPMS is a highly integrated system consisting of some fifty health care and administrative applications. Virtually all of these applications directly interact with one or more, and sometimes many, of the other RPMS applications.

During this same period, IHS and tribal dental programs have made use of the RPMS Dental Data System (DDS) as their primary system for maintaining a history of individual patient services; contributing dental data to the RPMS electronic clinical record; producing provider and department workload data; and contributing statistical data to the national data center located in Albuquerque, New Mexico. At many sites, data captured in the DDS has also been utilized in the RPMS Third Party Billing System.

With the replacement of the RPMS Dental Data System with an Electronic Dental Record (EDR), it is required that RPMS applications interact with the EDR to meet the needs of both the Dental Department and the local health program as a whole.

The IHS Production for the Ensemble Interface Engine (EIE) provides transportation of messages between the RPMS system and the EDR system. It accepts DFT_P03 messages from the EDR system and delivers them to the RPMS system. It accepts MFN_M02, ADT_A31, ADT_A28 and ADT_A40 messages from the RPMS system and delivers them to the EDR system.

If at any point there is an error in receiving a valid EDR or RPMS HL7 message, if there is a connection issue between EIE and either system, or any other error occurs an Email alert will be sent to the appropriate administrators from the EIE.

2.0   Release Notes

BADE Version 1.0 Patch 2 includes the following updates to the Electronic Dental Record (EDR) interface software:

- **RPMS Inactivated Patients**: Prior to completion of a patient merge, RPMS sites want to inactivate the "merged from" patient and notify EDR so the patient can be deactivated in Dentrix. This patch passes inactivated patients information to Dentrix when triggered by Registration after the initial patient upload has been completed;

- **RPMS HL global LOCK issues**: Other applications using the HL7 messaging application software in RPMS at times have locked up the RPMS HLO system and prevented Dental messages from being created. The BADE alerts have been modified to display an alert when EDR is trying to create an ADT message and cannot do so within a specified period;

- **DEFAULT USER**: There is a menu option to allow the user to add a default user for location. This option was originally included in the initial release of BADE and removed in patch 1. The option is included once again;

- **Patient Merge**: If a site tries to install the Merge patch while running the BADE EDR application without doing the BADE startup configuration, the Merge install will fail. This potential error has been corrected;

> **Notes**: This patch requires a KIDS installation in RPMS. There are NO modifications to the Dentrix Enterprise Software setup tables.
>
> BADE Patch 1 must be installed prior to the installation of BADE Patch 2. AGG Patch 1 must be installed prior to the installation of BADE Patch 2. If either of these patches are not installed, the BADE Patch 2 will describe the problem and abort the installation.

3.0   KIDS Installation Notes

Prefix: BADE

Current Version: 1.0 patch 2

> **Note**:   Read the entire file prior to attempting any installation!

3.1   Contents of Distribution

File	Description
bade0100.02k	KIDS file
bade0100.02i.pdf	Installation manual

3.2   Required Resources

- BADE*1.0 Patch 1
- AGG*1.0 Patch 1

3.3   Routines in BADE*1.0*2

BADEHL1

BADEENV2

3.4   New Options and Security Keys

There are no new Security Keys. There is one added menu option.

The Dental Interface Management Menu has the following option added to support
the entry of a DEFAULT USER (DUSR) for a location:

```
A28    Send a Single A28 Message [BADE EDR SEND A28]
A31    Send a Single A31 Message [BADE EDR SEND A31]
MFN    Send a Single MFN Message [BADE EDR SEND MFN]
A40    Send a Patient Merge Message [BADE EDR SEND A40]
          **> Locked with BADEZMER
REP    Reprocess an Inbound HL7 Message [BADE EDR REPROCESS IN MESSAGE]
RES    Resend an Outbound HL7 Message [BADE EDR RESEND OUT MESSAGE]
CLN    Set Default Clinic [BADE EDR DEFAULT CLINIC]
DTI    Set Default Time for Dental Visit [BADE EDR DEFAULT TIME]
DPR    Set Default Days for Message Purge Retention [BADE EDR DEFAULT
PURGE DAYS]
PRO    Dentist List [BADE EDR DISPLAY PROVIDER]
PUR    Manual Purge EDR HL7 Messages [BADE EDR MANUAL PURGE]
```

```
DUSR    Default User for Interface [BADE EDR DEFAULT USER]
```

4.0   KIDS Installation Instructions

Be sure and run the environment checker and double-check to make sure all of the prerequisite patches passed the check. Say NO to rebuilding menus when installing these patches.

In all UCI's:

- Load the Distribution into KIDS using option 1 on the KIDS Installation menu. The distribution was released in a file named bade0100.02k

- Verify the load using option 2 on the KIDS Installation menu.

- Consider using options 3 and 4 on the KIDS Installation menu to print and compare the Transport global.

- Install the distribution using option 6 on the Installation menu. Sites may wish to print out the install for review of errors

```
Select Installation Option: 1  Load a Distribution
Enter a Host File: E:\EDR\BADE0100.02K

KIDS Distribution saved on Feb 20, 2013@07:07:03
Comment: BADE PATCH2 KIDS BUILD 2/20/2013 FJE
```

This Distribution contains Transport Globals for the following Package(s):

```
BADE*1.0*2
Distribution OK!

Want to Continue with Load? YES// YES
Loading Distribution...
Build BADE*1.0*2 has an Environmental Check Routine
Want to RUN the Environment Check Routine? YES//
   BADE*1.0*2
Will first run the Environment Check Routine, BADEENV2

Use INSTALL NAME: BADE*1.0*2 to install this Distribution.
```

Checksums for BADE*1.0*2

```
    1        Load a Distribution
    2        Verify Checksums in Transport Global
    3        Print Transport Global
    4        Compare Transport Global to Current System
    5        Backup a Transport Global
    6        Install Package(s)
             Restart Install of Package(s)
             Unload a Distribution


Select Installation Option: 2  Verify Checksums in Transport Global
Select INSTALL NAME: BADE*1.0*2       Loaded from Distribution    Loaded from D
istribution  2/20/13@09:20:58
```

```
      => BADE PATCH2 KIDS BUILD 2/20/2013 FJE  ;Created on Feb 20, 2013@07:07:0
This Distribution was loaded on Feb 20, 2013@09:20:58 with header of
  BADE PATCH2 KIDS BUILD 2/20/2013 FJE  ;Created on Feb 20, 2013@07:07:03
  It consisted of the following Install(s):
    BADE*1.0*2
Want each Routine Listed with Checksums: Yes//   YES
DEVICE: HOME//   CONSOLE
PACKAGE: BADE*1.0*2    Feb 20, 2013 9:21 am                         PAGE 1
--------------------------------------------------------------------------------
BADEENV2  Calculated   3132500
BADEHL1   Calculated  129020299

  2 Routines checked, 0 failed.


Install the loaded and verified Patch


    1        Load a Distribution
    2        Verify Checksums in Transport Global
    3        Print Transport Global
    4        Compare Transport Global to Current System
    5        Backup a Transport Global
    6        Install Package(s)
             Restart Install of Package(s)
             Unload a Distribution

Select Installation Option: 6  Install Package(s)
Select INSTALL NAME: BADE*1.0*2       Loaded from Distribution    Loaded from D
istribution  2/20/13@09:16:54
      => BADE PATCH2 KIDS BUILD 2/20/2013 FJE  ;Created on Feb 20, 2013@07:07:0

This Distribution was loaded on Feb 20, 2013@09:16:54 with header of
    BADE PATCH2 KIDS BUILD 2/20/2013 FJE  ;Created on Feb 20, 2013@07:07:03
    It consisted of the following Install(s):
      BADE*1.0*2
Checking Install for Package BADE*1.0*2
Will first run the Environment Check Routine, BADEENV2


Install Questions for BADE*1.0*2


Want KIDS to Rebuild Menu Trees Upon Completion of Install? NO//


Want KIDS to INHIBIT LOGONs during the install? NO//

Enter the Device you want to print the Install messages.
You can queue the install by enter a 'Q' at the device prompt.
Enter a '^' to abort the install.

DEVICE: HOME//   CONSOLE


                            BADE*1.0*2


Build Distribution Date: Feb 20, 2013

 Installing Routines:
             Feb 20, 2013@09:17:24
```

```
 Installing PACKAGE COMPONENTS:

 Installing OPTION
              Feb 20, 2013@09:17:24

 Updating Routine file...

 Updating KIDS files...

 BADE*1.0*2 Installed.
              Feb 20, 2013@09:17:24

 NO Install Message sent

Install Completed
```

Acronym List

DDS	Dental Data System
EDR	Electronic Dental Record
EIE	Ensemble Interface Engine
IHS	Indian Health Service
RPMS	Resource and Patient Management System

Contact Information

If you have any questions or comments regarding this distribution, please contact the OIT Help Desk (IHS).

Phone: (505) 248-4371 or (888) 830-7280 (toll free)

Fax: (505) 248-4363

Web: http://www.ihs.gov/GeneralWeb/HelpCenter/Helpdesk/index.cfm

Email: support@ihs.gov